

Title (en)
NEGATIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING SAME

Title (de)
NEGATIVAKTIVMATERIAL FÜR WIEDERAUFLADBARE LITHIUMBATTERIE UND WIEDERAUFLADBARE LITHIUMBATTERIE DAMIT

Title (fr)
MATÉRIAU ACTIF NÉGATIF POUR BATTERIE AU LITHIUM RECHARGEABLE ET BATTERIE AU LITHIUM RECHARGEABLE LE
COMPRENANT

Publication
EP 3483959 A1 20190515 (EN)

Application
EP 18204456 A 20181105

Priority
KR 20170148248 A 20171108

Abstract (en)
Disclosed are a negative active material for a rechargeable lithium battery and a rechargeable lithium battery including the same, and the negative active material is a negative active material for a rechargeable lithium battery including a silicon-carbon composite including crystalline carbon and a silicon particle, wherein the silicon-carbon composite further includes an alkali metal or an alkaline-earth metal, a content of the alkali metal or the alkaline-earth metal is greater than or equal to about 500 ppm and less than about 5000 ppm based on that of the silicon-carbon composite.

IPC 8 full level
H01M 4/36 (2006.01); **H01M 4/02** (2006.01); **H01M 4/133** (2010.01); **H01M 4/134** (2010.01); **H01M 4/38** (2006.01); **H01M 4/587** (2010.01); **H01M 10/0525** (2010.01)

CPC (source: EP KR US)
H01M 4/133 (2013.01 - EP KR US); **H01M 4/134** (2013.01 - EP KR US); **H01M 4/362** (2013.01 - EP US); **H01M 4/364** (2013.01 - KR US); **H01M 4/366** (2013.01 - KR); **H01M 4/381** (2013.01 - EP US); **H01M 4/386** (2013.01 - EP KR US); **H01M 4/587** (2013.01 - EP KR US); **H01M 4/62** (2013.01 - KR); **H01M 10/0525** (2013.01 - EP KR US); **H01M 2004/027** (2013.01 - EP US); **H01M 2300/0037** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
• [X] US 2017110722 A1 20170420 - LEE UNGJU [KR], et al
• [A] US 2017012278 A1 20170112 - VERMA PALLAVI [DE]
• [A] JP 2005310759 A 20051104 - SHINETSU CHEMICAL CO
• [A] WO 2007055007 A1 20070518 - PIONICS CO LTD [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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DOCDB simple family (publication)
EP 3483959 A1 20190515; **EP 3483959 B1 20200513**; CN 109755496 A 20190514; CN 109755496 B 20220415; KR 102256534 B1 20210525; KR 20190052514 A 20190516; US 10991939 B2 20210427; US 2019140262 A1 20190509

DOCDB simple family (application)
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